Viton® A-200

Fluoroelastomer

DuPont Performance Elastomers

Message:

Viton® A-200 fluoroelastomer is an "A-family" gum polymer that demonstrates improved processing when compared with existing fluoroelastomers. Viton A-200 is designed for use with the clean molding bisphenol curative, Viton Curative No. 50.
Compared to other "A-family" dipolymers, Viton A-200 provides:
-Lower viscosity
-Improved mold flow
-Excellent extrusion characteristics
-Better mold release
-Less mold fouling
-Improved compression set resistance
Applications:
-Transfer and injection molding
--O-rings
--Valve stem seals and shaft seals
--Parts with complicated shapes
-Extrusions
--Fuel hose and tubing
-Solution coating
--Fabric
--Tanks or chemical containers

General Information	
Features	Low compressive deformability Low viscosity Good liquidity Compliance of Food Exposure Good demoulding performance
Uses	Washer Pipe Pipe fittings Seals Coating application Fabric coating
Agency Ratings	FDA 21 CFR 177.2600 2
Appearance	Grey
Forms	Particle
Processing Method	Extrusion Resin transfer molding Coating Calendering Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.82	g/cm³	ASTM D792
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	76		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	5.70	MPa	ASTM D412
Tensile Strength (Break)	11.1	MPa	ASTM D412
Tensile Elongation (Break)	200	%	ASTM D412
Compression Set			
23°C, 22 hr	7.0	%	ASTM D395B
200°C, 16 hr	10	%	ASTM D395
200°C, 70 hr	16	%	ASTM D395
200°C, 336 hr	35	%	ASTM D395B
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air			ASTM D573
225°C, 168 hr	-13	%	ASTM D573
100% strain, 225°C, 168 hr	-25	%	ASTM D573
Change in Ultimate Elongation in Air (225°C, 168 hr)	5.0	%	ASTM D573
Change in Durometer Hardness in Air (support a, 225°C, 168 hr)	3.0		ASTM D573

Additional Information

Mooney Scorch, MS at 121°C, Minimum: 26 unitsMooney Scorch, MS at 121°C, 1-unit rise: >30 minODR at 177°C, Microdie, 3° Arc, 15 min, ML: 4 in-lbODR at 177°C, Microdie, 3° Arc, 15 min, ts2: 1.9 minODR at 177°C, Microdie, 3° Arc, 15 min, tc90: 2.8 minODR at 177°C, Microdie, 3° Arc, 15 min, MH: 96 in-lbNominal Viscosity, ML 1 + 10, 121°C: 20Polymer Fluorine Content: 66%

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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